

INTERNATIONAL SEARCH REPORT

Intern

Application No
PCT/IB2004/051963A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G10L19/08 G10L19/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G10L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|----------|--|-----------------------|
| Y | <p>BRINKER DEN A C ET AL: "Phase transmission in a sinusoidal audio and speech coder" PREPRINTS OF PAPERS PRESENTED AT THE AES CONVENTION, 5983, 10 October 2003 (2003-10-10), pages 1-7, XP009028272 abstract page 1, left-hand column, line 1 – page 3, left-hand column, line 30 page 4, right-hand column, last paragraph – page 5, left-hand column, paragraph 1 page 5, right-hand column, lines 5-28 page 6, left-hand column, lines 17-21</p> <p style="text-align: center;">-----</p> <p style="text-align: center;">-/-</p> | 1-14 |

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

T later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

& document member of the same patent family

Date of the actual completion of the International search

Date of mailing of the International search report

7 December 2004

27/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
 Fax: (+31-70) 340-3016

Authorized officer

Santos Luque, R

INTERNATIONAL SEARCH REPORT

Inter

Application No
PCT/IB2004/051963

| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|--|--|-----------------------|
| Category | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| Y | DAVIS YEN PAN: "Digital audio compression" DIGITAL TECHNICAL JOURNAL USA, vol. 5, no. 2, 1993, pages 28-40, XP002309088 ISSN: 0898-901X page 3, left-hand column, paragraph 1-3 ----- | 1-14 |
| Y | DE 42 29 372 A (INST RUNDFUNKTECHNIK GMBH) 10 March 1994 (1994-03-10) abstract ----- | 3,4,7,8 |
| A | LIEBCHEN, T: "MPEG-4 Lossless Coding for High-Definition Audio" CONVENTION PAPER PRESENTED AT THE 115TH CONVENTION OF THE AES, AUDIO ENGINEERING SOCIETY, 10 October 2003 (2003-10-10), pages 1-6, XP002309231 NEW YORK, NY, USA page 4, right-hand column, paragraph 3.4 abstract; figure 2 ----- | 1-14 |
| A | BRINKER DEN A C ET AL: "PARAMETRIC CODING FOR HIGH-QUALITY AUDIO" PREPRINTS OF PAPERS PRESENTED AT THE AES CONVENTION, 5554, 10 May 2002 (2002-05-10), pages 1-10, XP009028433 the whole document ----- | 1,6, 10-14 |
| A | PURNHAGEN H: "Advances in parametric audio coding" APPLICATIONS OF SIGNAL PROCESSING TO AUDIO AND ACOUSTICS, 1999 IEEE WORKSHOP ON NEW PALTZ, NY, USA 17-20 OCT. 1999, PISCATAWAY, NJ, USA, IEEE, US, 17 October 1999 (1999-10-17), pages 31-34, XP010365061 ISBN: 0-7803-5612-8 page 32, paragraph 2.3 ----- | 1,6, 10-14 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inte

al Application No

PCT/IB2004/051963

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|--|------------------|-------------------------|------------------|
| DE 4229372 | A 10-03-1994 | DE 4229372 A1 | 10-03-1994 |